ELECTRONIC TECHNIQUES FOR ANALYTE DETECTION

ABSTRACT OF THE DISCLOSURE

Techniques are used to detect and identify analytes. Techniques are used to fabricate and manufacture sensors to detect analytes. An analyte (1810) is sensed by sensors (1820) that output electrical signals in response to the analyte. The electrical signals are preprocessed (1830) by filtering and amplification. In an embodiment, this preprocessing includes adapting the sensor and electronics to the environment in which the analyte exists. The electrical signals are further processed (1840) to classify and identify the analyte, which may be by a neural network.